

# NORTH TEXAS RESEARCH LABORATORY

A Division of North Texas Medical Associates

**IVAN E. DANHOF, Ph.D., M.D.**  
*Director*

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222 S.W. 2<sup>nd</sup> Street  
Suite #201  
Grand Prairie, Texas 75051  
Fax: (972) 263-1059

Date Received: 30 June 2004  
Date Examined: 30 June, 01, 02 July 2004  
07, 08, 09 July 2004  
Date Reported: 12 July 2004 04242

Sponsor: Vitarich Labs Quality Control  
4365 Arnold Avenue  
Naples, Florida 34104

**SAMPLE:**

Sample Designation: Original Limu  
The One The Only The Original  
Distributed by the Limu Company LLC  
Lake Mary, Florida

Control Number: Lot # 0405004; 6-28-04

Container: Quality control plastic bottle

Sealed: Internal

Sample Source: Vitarich Labs

Color: Light gray-green

Characteristics: Densely opaque; slight increase in  
viscosity; fine insoluble sediment

Taste: Bland

Precipitate: Medium olive-green; finely granular; membranous;  
fine insoluble sediment Pale green; jell-like  
consistency; fine sediment  
removed

Fucoidan: (110,000-155,000 Daltons) = 1.68%

Fine Sediment: 0.199%

Total Solids (TS) = 2.510%\* 2.311%\*\*

\* Including preservatives (if any), additives, and insoluble sediment

\*\* Including preservatives and additives, but with insoluble sediment removed

MeOH Solids (MS) = 0.400% \*\*\* 0.275%\*\*\*\*

\*\*\* Including MeOH Solids and insoluble sediment

\*\*\*\* MeOH-Precipitable Solids = 0.275% = 0.275g% = 0.275 g/dL = 275 mg/dL = 2,750 mg/L

**Comments:**

Size-Exclusion Chromatography: See Pages Three, Four, and Five

  
Ivan E. Danhof, Ph.D., M.D.